TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-03-05** **Date:5-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/01
Sample Type	:	Ultratech cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.98	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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Quality Manager

Page 1/1
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-03-05** **Date: 01-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/01
Sample Type	:	Ultratech cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-03-05** **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	476	476	3.2	96.8	90-100
3	20 mm	7068	7544	50.3	49.7	30-70
4	10 mm	3405	10949	73.0	27.0	10-35
5	4.75 mm	3538	14487	96.6	3.4	0-5
6	Pan	513	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-03-05** **Date: 06-05-2017**

Sample ID No : 2017-05-03-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	1.59	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-03-05** **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	229	229	4.58	95.42	90-100
3	10 mm	3416	3645	72.9	27.1	25-55
4	4.75 mm	870	4515	90.3	9.7	0-10
5	Pan	485	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-03-05**

Sample ID No : 2017-05-03-05/02(b)

Date: 06-05-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.8	
3	Specific Gravity	1.61	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.29	–
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-03-05** **Date: 06-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-05-17
Total weight taken	:	1000 grams

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP. Bangalore - 97

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	54	54	5.4	94.6	90-100	90-100	90-100	95-100
3	2.36 mm	139	193	19.3	80.7	60-95	75-100	85-100	95-100
4	1.18 mm	242	435	43.5	56.5	30-70	55-90	75-100	90-100
5	600 micron	175	610	61	39.0	15-34	35-59	60-79	80-100
6	300 micron	263	873	87.3	12.7	5-20	8-30	12-40	15-50
7	150 micron	69	942	94.2	5.8	0-10	0-10	0-10	0-15
8	Pan	58	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-03-05** **Date: 06-05-17**

Sample ID No : 2017-05-03-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.67	–
2	Specific Gravity	2.6	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-03-05** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/04
Sample Type	:	Indus TMT Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	04-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus TMT Fe500	Fe500	10mm	0.612	539	630	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus TMT Fe500	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-03-05** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/09/2017-18
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-05/05
Sample Type	:	Indus TMT Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	04-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus TMT Fe500	Fe500	12mm	0.888	548	668	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus TMT Fe500	Fe500	12mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-17-04** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-17

Sample ID No : 2017-05-17-04/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/05/2017	22/05/2017	150.32 X 150.13 X 150.32	22568	8.390	282.1	12.5	12.3
2	PCC	M15	15/05/2017	22/05/2017	149.77 X 149.32 X 150.22	22364	8.190	257.2	11.5	
3	PCC	M15	15/05/2017	22/05/2017	149.10 X 151.32 X 150.55	22562	8.420	293.3	13.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-17-04** **Date: 18-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-17

Sample ID No : 2017-05-17-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/05/2017	12/06/2017	150.23 X 150.14 X 150.26	22556	8.230	417.3	18.5	18.1
2	PCC	M15	15/05/2017	12/06/2017	150.46 X 150.29 X 150.87	22613	8.620	411.5	18.2	
3	PCC	M15	15/05/2017	12/06/2017	150.19 X 150.10 X 150.32	22544	8.231	394.5	17.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-04** **Date: 18-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/05/2017	18/05/2017	150.21 X 150.11 X 150.41	22548	8.280	394.6	17.5	17.7
2	Drain Concrete	M20	11/05/2017	18/05/2017	150.21 X 150.22 X 150.42	22565	8.230	399.4	17.7	
3	Drain Concrete	M20	11/05/2017	18/05/2017	150.53 X 150.44 X 150.43	22646	8.320	405.4	17.9	

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshita

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-04** **Date: 08-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-04/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M25	11/05/2017	08/06/2017	150.35 X 150.22 X 150.43	22586	8.180	530.8	23.5	23.8
2	Drain Concrete	M25	11/05/2017	08/06/2017	150.54 X 150.11 X 150.10	22598	8.230	537.8	23.8	
3	Drain Concrete	M25	11/05/2017	08/06/2017	150.56 X 150.54 X 150.55	22665	8.199	546.2	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-04** **Date: 18/06/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th cross Nanjappa layout in ward no.10 (Doddabommanasandra), Vidyaranyapura Sub division

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M25	11/05/2017	18/05/2017	150.11 X 150.32 X 150.54	22565	8.138	365.5	16.2	17.1
2	Drain Concrete	M25	11/05/2017	18/05/2017	150.22 X 150.76 X 150.11	22647	8.230	391.8	17.3	
3	Drain Concrete	M25	11/05/2017	18/05/2017	150.13 X 150.21 X 150.44	22551	8.330	403.7	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-04** **Date: 08-06-17**

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Customer's Reference : BBMP/EE/BTP/WO/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	11/05/2017	08/06/2017	150.11 X 150.32 X 150.54	22565	8.138	507.7	22.5	22.4
2	Drain Concrete	M20	11/05/2017	08/06/2017	150.22 X 150.76 X 150.11	22647	8.230	493.7	21.8	
3	Drain Concrete	M20	11/05/2017	08/06/2017	150.13 X 150.21 X 150.44	22551	8.330	518.7	23.0	

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